

## Biphase to Time Code Interface

### description

The BIF biphase interface converts biphase signals from mag machines, film projectors or editing tables into LTC longitudinal time code and MTC midi time code simultaneously.

The input accepts bi-phase or pulse & direction signals from 1 to 256 pulses per frame and can be connected consequently with any film transport.

The electronic gear box resolves any frame rate to 36, 48, 50, 60 Hz or multiple signals.

The reference lock point, the user bits, the time code format, the input format and the pulses per frame are programmable and stored in a non volatile memory.

The direct conversion from bi-phase signals into time code allows frame accurate spotting by using MTC full/MMC locate messages and positional LTC.

In „freerun“ operation mode the interface can also be used as an LTC and MTC generator without losing the actual biphase reference point.

The interface has a robust aluminium housing, a large 7-segment LED display and a built-in power supply. An optional rackmount kit for fitting the unit into a 19“ rack is also available.



- Generates LTC and MTC from biphase signals
- Polarity, pulses per frame, format and userbits programmable
- Positional LTC and MTC-full/locate output during jog/shuttle
- Electronic gear box for standard conversion from 18, 24, 25, 30 to 24, 25, 30 fps

## ROSENDAHL

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### Biphase master

film projector,  
mag machine,  
film editing table

### MTC slave

digital audio workstation,  
midi sequencer,  
automated mixer

### LTC time code slave

time code DAT,  
hard disk recorder,  
tape-based digital multitrack  
recorder,  
automated mixer

## specifications

### Biphase inputs

9-pin D-Sub female, two opto-isolated inputs (3-5V, 5 mA), two TTL inputs (5V, 1K5 pull up), GND, 5V output (max 100 mA), pulses per frame programmable, 0-2,5 KHz biphase, 0-5 KHz pulse & dir.

### LTC output

RCA female, 0-3 Vpp adjustable, 500 ohms, positional time code output for cueing, 24, 25, 30d, 30 fps

### MIDI output

5-pin DIN, The Complete MIDI 1.0, MTC quarter frame and full messages, MMC locate for cueing

### Power

Euro two-pole, 230 VAC/30 mA or 115 VAC/60 mA version available

### LED Display

8 x HP 7503, 6 mm (0,3") red

### Dimensions

11,4 cm W x 3,1 cm H x 16,8 cm D,  
1U-19" rackmount kit available

### Weight

0,7 kg